INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/18775

IPC(7) US CL	SSIFICATION OF SUBJECT MATTER :C12N 9/48; C12Q 1/37; C07K 1/00; A61K 38/00 :435/212, 23, 24; 530/350; 514/12						
According to	o International Patent Classification (IPC) or to both	national classification and IPC					
7	DS SEARCHED						
Minimum d	ocumentation searched (classification system follower	ed by classification symbols)					
	435/212, 23, 24; 530/350; 514/12						
Documentat	tion searched other than minimum documentation to the	e extent that such documents are included	l in the fields searched				
	lata base consulted during the international search (nee Extra Sheet.	ame of data base and, where practicable	e, search terms used)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·				
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.				
A	RUSSELL et al. The pilE gene produc	et of Pseudomonas aeruginosa	1-22				
	required for pilus biogenesis, shares						
	with the N-termini of type 4 pre						
	Microbiology Vol. 13, No. 6, pages 9						
Α	FILLOUX et al. GSP-dependent prote	in secretion in Gram-negative	1-22				
	bacteria: the Xcp system of Pseudomo	nas aeruginosa. Microbilogy					
	Reviews Vol. 22, pages 177-198, 1998						
A ,	DARZINS et al. Molecular genet biogenesis and twitching motility using	1-22					
	a model systema review. Gene Vol.						
			<i>V</i>				
X Further documents are listed in the continuation of Box C. See patent family annex.							
Sp	ecial categories of cited documents:	*T* later document published after the inte					
	cument defining the general state of the art which is not considered be of particular relevance	date and not in conflict with the apple the principle or theory underlying the					
.E. can	e claimed invention cannot be red to involve an inventive step						
*L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the special reason (as specified)		·					
•0• do	comment referring to an oral disclosure, use, exhibition or other	considered to involve an inventive combined with one or more other suc being obvious to a person skilled in (step when the document is h documents, such combination				
	cument published prior to the international filing date but later than e priority date claimed	*&* document member of the same paten	t family				
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Form PCT/ISA/210 (second sheet) (July 1998)*



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Electronic data bases consulted (Name of data base and where practicable terms used):

EAST Patents Database, Derwent World Patents Database, BIOSIS, EMBASE, MEDLINE, LIFESCI, SCISEARCH, CAPLUS, AND GenEmbl, n_geneseq_36, EST, a_geneseq_, pir_64, SwissProt_38, SPTREMBL_12 nucleic acid and amino acid databases.